

METHOD, SYSTEM, AND COMPUTER SOFTWARE PROGRAM PRODUCT FOR
ANALYZING THE EFFICIENCY OF A COMPLEX PROCESS

ABSTRACT OF THE DISCLOSURE

5 A method of analyzing a workload schedule for a complex process with respect to
resources available therefore is provided, wherein a plurality of projects comprising the
complex process are identified, each project having a start date and a cycle time and
further comprising at least one task. A hands-on work time required for each task is then
determined, wherein the tasks include a task requiring a greatest hands-on work time. An
10 effort equivalence for each task is thereafter determined by normalizing each task hands-
on work time with respect to the task hands-on work time of the task requiring the
greatest hands-on work time. The projects are arranged according to the start date and
the cycle time and with respect to a calendar defining intervals such that each task is at
least partially performed in one of the intervals. An apportionment of the effort
15 equivalences is then determined for the intervals corresponding to the tasks at least
partially performed in respective intervals, followed by a total effort equivalence for each
interval, with the total effort equivalence corresponding to the sum of the effort
equivalence apportionment for the tasks at least partially performed in that interval. The
total effort equivalence for each interval is subsequently compared to a historical
20 maximum effort equivalence volume so as to evaluate the workload schedule with respect
to the available resources. Thereafter, where the total effort equivalence for an interval
exceeds the historical maximum effort equivalence volume, the projects are modified so
as to reapportion the total effort equivalences such that a relatively more efficient
utilization of the available resources with respect to the workload schedule is thereby
25 obtained. A related method for analyzing the productivity of a complex process is also
provided, along with related systems and computer software program products.